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(54) MANUFACTURING FOR REAR-EARTH MAGNET

(57) Abstract:

PURPOSE: To provide raw slurry with good fluidity and impregnation, by adding a given quantity of olein acid to rear-earth permanent magnetic powder and/or mineral, composite or vegetable oil and/or these mixed materials.

CONSTITUTION: After mineral, composite or vegetable oil is mixed with magnetic powder for RCo_5^- , $R_2Co_{17}^-$ or R-Fe-B-based rear-earth permanent magnet (R is one or two kinds of rear-earth material including Y), a given quantity of olein acid of 0.01 to 0.5wt% to the total weight is added to these mixed materials. The mixed materials are put in a ball mill and stirred with a steel ball coated with plastics as a medium to obtain raw slurry 7. The raw slurry 7 is molded in a given continuous molding machine. In the molding step, a magnetic field is applied to a die cavity, to which the raw slurry 7 from a pressurized feeding unit 8 is charged under pressure. After a deoiling step, the raw slurry 7 is sintered at a given temperature under pressure.

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